Sierra®

Sierra S5832

The Expandable 8 - 32 Zone Control Panel

C&K® SYSTEMS

S5832 Control Panel

Panel Highlights

- Easily expandable from 8 to 32 zones by using the Sierra S5058 zone expansion module(s) - 8 zones per module.
- The system can be divided into max. 8 partitions (common area optional); each partition can be operated independently.
- 60 User codes assignable to specific or all areas; more than most panels in this class.
- Hardwire or SpreadNet® wireless zones or a combination of the two.
- 3 Keypad choices - Alphanumeric, LED or ICON style.
- 2 Programming modes - Menu driven or Quick Mode.
- 4 Setting modes; home, quick exit, instant home and single button set.
- Expandable up to 500 event memory (time and date stamped).
- 1 Relay output onboard; programmable (more than 70 options). Expandable up to eleven outputs by using the Sierra S5050 relay/event module - 5 outputs per module.
- All major communication formats supported including contact ID and SIA.
- Numeric pager support.
- Supports up to 16 keypads.
- Two-wire powered loop for smoke detectors.
- Available in single-line-, dual-line telephone communicator or local versions.

Overview

The Sierra® S5832 is a full featured, expandable control panel designed for easy installation and use. The modular design provides a broad range of commercial and residential solutions at an affordable price. The Sierra S5832 has features to reduce false alarms and increase customer satisfaction. Sierra is also fully compatible with C & K's popular Monitor II / Commander II (*V3.5 or later) Microsoft® Windows™ based software for local or remote programming and control.

Specifications

Number of Zones
Eight fully programmable on-board zones; expandable to 32 zones with model S5058 Zone Expansion Modules.

Zone Types

- Entry delay 1/exit
- Entry delay 2/exit
- Interior instant
- Interior delay 2
- Instant (perimeter)
- Day-buzzer/instant
- Day-buzzer/delay 2
- Day-bell/instant
- Day-bell/delay 2
- 24-Hour BA
- Fire
- Tamper
- Panic/hold-up
- Emergency
- Keyswitch

Circuit Types
Normally Closed (NC), Normally Open (NO), EOL, Supervised (w/ EOL), Tamper, (w/ 2 EOL resistors), SpreadNet RF.

Keypad Capacity
Up to 16 keypads.

Installer Code
Six-digit code required for all programming: cannot be used to set or unset.

User Code
Supports up to sixty 4-digit user codes: one grand master code, up to eight area master codes, up to eight relay control codes, up to eight area duress codes and up to eight area maid codes.

Outputs
External siren, internal siren, strobe and relay outputs (min. 1 / max. 11).

Relay Output Types
More than 70 different programmable types available.

Mains Power Supply
230 Vac.

Power Consumption
125 mA Max.

Digital Communicator Options
Single-line- or dual-line plug-on telephone communicators are available.

Reporting Formats
ADEMCO: 4+2, Contact ID and High Speed; SIA; CFSK-IV; Radionics Fast and Slow; Silent Knight; Numeric DTMF Pager (4+2); Personal Dialling; ROBOFON.

Total Auxiliary Power
1500 mA.

Housing
White zinc plated.
Large enclosure: 370 x 350 x 80 mm (HxWxD).
Small enclosure: 260 x 266 x 80 mm (HxWxD).

Approvals
To be requested from local C & K distributors/dealers.

Models
- **S5832L=AU2** Local control, large enclosure.
- **S5832=AU2** Local control, small enclosure.

Sierra®

KEYPADS - 3 OPTIONS FOR THE SIERRA® SYSTEM

General Keypad Features
- Attractive white finished housing with flip-down door.
- Large back-lit 4 x 4 rubber keypad matrix.
- Easily connects on system data bus.
- Clearly labelled secondary function keys.
- Three programmable panic keys.
- Audible tones: entry, exit, alarm, key press, error and service.
- Quick one button setting options.
- Built in tamper switch.
- Optional; several languages available.

S5010 ALPHANUMERIC KEYPAD

Features
- Attractive 32-zone LCD 2 x 16 character back-lit supertwist display.
- Can display up to three different languages (depending on the control panel version).
- Used for common area partitioning.
- Menu driven installation commands.

Specifications

Current draw	: 30 mA (50 mA max.)
LED indication	: power and arm
Cable	: 6 core
Housing	: white, high impact, ABS plastic
Dimensions	: 115 x 164 x 30 mm (HxWxD)

S5020 ICON LCD KEYPAD

Features
- 32-Zone, fixed back-lit LCD characters.
- The Icon display describes (in fixed text) the system's status (e.g. ENTER NEW CODE, LOW-BATT, NOT READY etc.).
- Three, 7-segment characters for displaying zone number and user code information (also easy for installer programming).
- May be used for common area partitioning.

Specifications

Current draw	: 30 mA (50 mA max.)
LED indication	: power and arm
Cable	: 6 core
Housing	: white, high impact, ABS plastic
Dimensions	: 115 x 164 x 30 mm (HxWxD)

S5030 LED KEYPAD

Features
- 16 Zone LED keypad (not compatible with systems over 16 zones).

Specifications

Current draw	: 30 mA (50 mA max.)
LED indication	: power, arm, ready, service, 16 zones
Cable	: 6 core
Housing	: white, high impact, ABS plastic
Dimensions	: 115 x 164 x 30 mm (HxWxD)

Accessories For System Enhancements

S5050 Relay/Event Memory Module (REMM)

The S5050 relay/event memory module is used for expanding relay outputs (5 outputs per module) and event memory (250 events per module). Maximum of two S5050 modules per S5832 control panel.

Features

- Five relays - wet or dry contacts set by switch.
- 250 Event memory (date and time stamped).
- Easily connects on system data bus.
- Optional wall and cover tamper switch.
- Mounts in the panel enclosure or remotely up to 305 m away - saves wiring and labour costs.
- Over 70 programmable functions with individual relay control.

Specifications

Voltage	: 9.5 ~ 14.5 Vdc
Cable	: 4 core (305 m)
Current draw	: 20 mA (all relays non-energised) 100 mA (all relays energised, 16 mA / relay) 100 mA (limited auxiliary output) 200 mA (all relays and auxiliary terminal)
Contacts rated	: 1 A @ 12 Vdc 60 VA (max. switching power)
Operating temperature	: 0° ~ 50°C; relative humidity up to 95% non-condensing
Housing	: off-white, polycarbonate
Dimensions	: 111 x 81 x 35 mm (HxWxD)

S5052 Tamper Kit

Combined wall- and cabinet door tamper switch.

S5053 Load Shed Module

The S5053 load shed module is used for disconnecting the battery from the S5832 control panel during a low battery condition to prevent deep discharge of the battery.

Features

- Disconnects the battery from the control panel during extended AC failure to prevent deep discharge.
- Installs in seconds.
- Double back tape allows easy mounting anywhere inside the enclosure.

Specifications

Cut-out voltage	: 9.8 Vdc
Max. current	: 5 A
Input leads (from battery)	: 190 mm
Output leads (to panel)	: 75 mm
Operating temperature	: 0° ~ 50°C; relative humidity up to 95% non-condensing
Dimensions	: 65 x 32 x 29 mm (HxWxD)

S5054 Battery Connection Cable

The S5054 is used to connect two 7Ah batteries in parallel to the S5832 control panel.

S5058 Zone Expansion Module (ZEM)

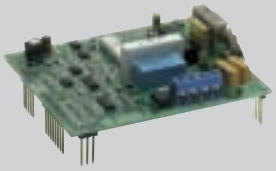
The S5058 module is used for expanding the number of zones (8 zones per module). Maximum of three S5058 modules per S5832 control panel.

Features

- Each model adds 8 hardwire zones to the Sierra S8832 control panel.
- Zone inputs can be configured for four state operation: normal, trouble, tamper and faulted.
- Adjustable zone response time controlled by the panel (for group of 8 zones).
- Easily connects on system data bus.
- Optional wall and cover tamper switch.
- Mounts in the panel enclosure or remotely up to 305 m away - saves wiring and labour costs.

Specifications

Voltage	: 9.5 ~ 14.5 Vdc
Cable	: 4 core (305 m)
Current draw	: 30 mA (main PCB only) 300 mA (limited auxiliary outputs) 330 mA (PCB and outputs)
Operating temperature	: 0° ~ 50°C; relative humidity up to 95% non-condensing
Housing	: off-white, polycarbonate
Dimensions	: 111 x 81 x 35 mm (HxWxD)



S5070 Single Line Communicator

This modular dialer is designed to plug into the S5832 local control panel, enabling the panel to send and receive digital messages via a single telephone line. Upgrading a local panel with a digital communicator enables the panel to be remotely programmed, to communicate with a central station, or to transmit digital data to a numeric pager or personal phone line.

S5070-2 Dual Line Communicator

This modular dialer supports two telephone lines. Like the single line dialer, it also plugs into the S5832 local control panel. The dual line digital communicator is designed for use in installations where a back-up phone is desired.

Commander II Remote Programming Software

- Remote or on-site programming of control panels.
- Central Station, proprietary and remote station monitoring.
- PC-based program.
- Easy-to-use graphical user interface (GUI).
- Microsoft® Windows™ environment (Windows 3.1 or higher).
- Alarm forwarding by fax or modem.
- Network database sharing.
- Remotely control system functions of control panels.
- Remote diagnostics.

SN915 Bus Receiver

The SN915 Bus receiver connects to the keypad bus and allows all SpreadNet® 900 MHz spread spectrum wireless devices to operate with the Sierra control panel.

Features

- Intelligent wireless receiver.
- Easily connects on system data bus.
- Communicates wireless transmitter information over the system data bus.
- Mounts at the panel enclosure or remotely up to 111 m.

Specifications

Voltage	: 210 mA @ 9.5 ~ 14.5 Vdc
Transmission frequency	: 902 ~ 928 MHz Spread Spectrum
RFI immunity	: 30 V/m out of band 10 MHz ~ 1000 MHz
ESD immunity	: ± 12 kV
Operating temperature	: 0° ~ 60°C; relative humidity up to 95% non-condensing
Housing	: mist white, ABS plastic
Dimensions	: 110 x 200 x 45 mm (HxWxD)

SN961 Key Fob

This SpreadNet device fits in the palm of your hand and can serve as a keychain. It is used primarily for remote setting and unsetting of a Sierra system, and can also send panic signals to the control panel. Up to 60* key fobs may be used with one Sierra system.
** The total of all remotes and key fobs used with the systems may not exceed 60 devices.*

Features

- 10 mW Transmitter
- Keychain style for set / unset
- Two-button panic for emergencies.
- Sierra system supports up to 60 key fobs or remotes, and reports user number.

Specifications

Power requirements	: one 6 Vdc 1/2AA lithium battery
Transmission power	: 10 mW maximum, transmitting period of 7.6 mSec.
Operating frequency	: 902 ~ 928 MHz Spread Spectrum
Operating temperature	: 0° ~ 60°C; relative humidity up to 95% non-condensing
Dimensions	: 84 x 52.5 x 19 mm (HxWxD)

Installer Features

■ Two Programming Modes

Installers can choose menu-driven or quick mode programming. The menu-driven mode guides the installer through programming with sequential text prompts, questions and options. Menu programming is done with the Alphanumeric keypad. The quick programming mode allows the installer to quickly go to a command location and verify or change programmed data. Quick mode programming can be done with either the Alphanumeric or the LED keypad.

■ PC Programming

Programming can be done quickly and efficiently using C & K's Commander II V3.5 Windows based software. Several connection options are available allowing direct connect, optional panel dial back, first call connect and answering machine bypass.

■ Easily Add System Accessories

System keypads, relay/event memory modules, zone expansion modules and SpreadNet wireless receivers are easily added along a single data bus, making installation fast and clean.

■ Hardwire/Wireless Options

The Sierra S5832 can be installed using either conventional hardwire, SpreadNet wireless, or a combination of the two.

■ **Installer Mode**
Installer mode allows the Sierra S5832 to be tested easily and completely by a single technician.
As the technician faults each zone, it is displayed at the keypad along with a single keypad chime. Entry/Exit delays can be tested as well as the communication and alarm siren functions of the panel.
Walk test events can be viewed and transmitted to the central station.

End-User Benefits

■ **Up to 60 User Codes**
The Sierra S5832 can support up to 60 four-digit user codes; more than most panels in this class.

■ **Maid Code**
The Sierra S5832 supports up to eight Maid Codes- one code per partitioned area.
The Maid Code allows access only during specified days or user defined time.

■ **One-Button Setting Options**
The end-user has a choice of several options for setting the system with the press of a single button.

■ **Home Arming/Instant Home Setting**
Gives flexibility by automatically isolating pre-programmed zones, allowing the system to be set while the user remains inside.

■ **Partitioning**
The Sierra S5832 supports up to 8 partitions, with or without one common area. Each alphanumeric partition can accommodate up to max. 32 zones and up to max. 16 keypads. With the common area, you can choose one keypad to control all
partitions. The sirens and digital communicator are shared by all partitions and each partition can be operated independently. One or more partitions can be set or unset without changing the status of the other partitions.

■ **Quick Exit**
With the system in the home set state, a user can press the “quick exit” button and leave the premises.
The system will automatically reset in the home set state at the completion of the exit delay.

■ **Pager Protocol**
The Sierra S5832 allows any report sent by the digital communicator to also go to a standard numeric pager.
This feature is ideal for both private response units (signalling an on-site security guard) or for homeowners who wish to monitor their own user’s “openings and closings”.

■ **Supervision**
Phone-line cut detection and bell supervision provide constant monitoring of critical panel annunciation and reporting functions.

System Safeguards & False Alarm Reduction

■ **Learn Mode**
This feature gives the end-user up to 31 days of learning time during which alarms are indicated on the keypad but not sounded or reported.

■ **Double Knock Zoning**
This feature requires one or more of the system’s set burglary zones to trip twice within a 30-second time period before the system signals an alarm condition. This prevents false alarms caused by sudden environmental changes or small animal movement.

■ **Cross Zoning**
For higher security applications such as vaults, computer rooms, or sensitive storage areas, all zones in the cross zoning list must have been tripped before the system signals an alarm condition.

■ **Swinger Shutdown**
This option is used to limit the number of alarms which will be reported during a set period.
This to prevent runaway false alarms caused by environmental changes or a malfunction device.

■ **Entry Delay Times**
Two different entry delay times can be programmed for separate entrances where a user may need more time to unset the system.

■ **Extended Exit Delay**
After setting the system, the user can re-enter the exit door up to 4 times during the exit delay with the exit delay starting over each time. This prevents false alarms caused by users who re-enter the building.

■ **Exit Fail Reports**
Exit fail reports are sent to the central station when a user triggers the alarm by failing to properly exit the premises during the exit delay time. This prevents dispatching emergency responses to a false alarm.

■ **Validator® Audio Verification**
C & K’s Validator system allows you to verify a real alarm by providing two-way listen-in and talk back communication with the central station.

For further information, please contact:

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